Docket No.: 10030175-1

ABSTRACT

Systems and methods for position determination and motion tracking for use in a processor based system. Embodiments may incorporate a redirector that moves in at least one direction about a fixed point, an object operable to reflect a search beam as a location beam, logic operable to determine at least one angle of position for the object from the orientation of the redirector, and logic operable to determine a distance of the object from a fixed point.